**1.Even or odd:**

import java.util.\*;

public class Main{

  public static void main(String[] args) {

  int n;

    Scanner sc= new Scanner(System.in);

    System.out.println("Enter 1 number");

    n=sc.nextInt();

    if(n%2==0) {

      System.out.println(n+" is Even");

    }

    else   {

      System.out.println(n+" is Odd");

    }

  }

}

**2.Divisible by 17 or not:**

import java.util.\*;

public class Main{

    public static void main(String[] args) {

    int n;

        Scanner sc= new Scanner(System.in);

        System.out.println("Enter the n");

        n=sc.nextInt();

        if(n%17==0) {

            System.out.println(n+" is divisible");

        }

        else {

            System.out.println(n+" is not divisible");

        }

    }

}

**3.Leap year:**

import java.util.\*;

public class Main{

    public static void main(String[] args) {

    int n;

        Scanner sc= new Scanner(System.in);

        System.out.println("Enter the n");

        n=sc.nextInt();

        if(n%4==0) {

            System.out.println(n+" is leap year");

        }

        else{

            System.out.println(n+" is not leap year");

        }

    }

}

**4.Number is divisible by 5 & 7:**

import java.util.\*;

public class Main{

  public static void main(String[] args) {

  int n;

    Scanner sc= new Scanner(System.in);

    System.out.println("Enter 1 number");

    n=sc.nextInt();

    if(n%5==0&&n%7==0) {

      System.out.println(n+" is divisible by 5 & 7");

    }

    else{

      System.out.println(n+" is not divisible by 5 or 7");

    }

  }

} **5.Number divisible by 5 or 7:**

import java.util.\*;

public class Main{

  public static void main(String[] args) {

  int n;

    Scanner sc= new Scanner(System.in);

    System.out.println("Enter 1 number");

    n=sc.nextInt();

    if(n%5==0||n%7==0) {

      System.out.println(n+" is divisible by 5 & 7");

    }

 else   {

      System.out.println(n+" is not divisible by 5 or 7");

    }

  }

}

**6.Max from 2 numbers:**

import java.util.\*;

public class Main{

  public static void main(String[] args) {

  int n,n1;

    Scanner sc= new Scanner(System.in);

    System.out.println("Enter n number");

    n=sc.nextInt();

    n1=sc.nextInt();

    if(n>n1){

      System.out.println(n+" is max number");

    }

    else{

      System.out.println(n+" is not max number");

    }

  }

}

**7.Minimum of two numbers:**

import java.util.\*;

public class Main{

  public static void main(String[] args) {

  int n,n1;

    Scanner sc= new Scanner(System.in);

    System.out.println("Enter n number");

    n=sc.nextInt();

    n1=sc.nextInt();

    if(n<n1){

      System.out.println(n+" is min number");

    }

    else if(n1<n){

      System.out.println(n1+" is min number");

    }

      else{

        System.out.println("Equal");

      }

    }

}

**8. number is positive,negative,zero:**

import java.util.\*;

public class Main{

  public static void main(String[] args) {

  int n,n1;

    Scanner sc= new Scanner(System.in);

    System.out.println("Enter n number");

    n=sc.nextInt();

    n1=sc.nextInt();

    if(n<n1)  {

      System.out.println(n+" is positive number");

    }

    else if(n1<n)  {

      System.out.println(n1+" is negative number");

    }

      else {

        System.out.println("zero");

      }

    }

}

**9.Accept 3 numbers from user & check whether 1st is between 2 nd & 3rd numbers:**

import java.util.\*;

public class Main{

  public static void main(String[] args) {

  int a,b,c;

    Scanner sc= new Scanner(System.in);

    System.out.println("Enter 3 number");

    a=sc.nextInt();

    b=sc.nextInt();

    c=sc.nextInt();

    if(a>b && a<c || a>c && a<b){

      System.out.println("is between");

    }

else{

  System.out.println("is not between");

}

    }

}

**10.b between a & c :**  
import java.util.\*;

public class Main{

  public static void main(String[] args) {

  int a,b,c;

    Scanner sc= new Scanner(System.in);

    System.out.println("Enter 3 number");

    a=sc.nextInt();

    b=sc.nextInt();

    c=sc.nextInt();

    if(b>a && b<c || b>a && b<c){

      System.out.println("is between");

    }

else{

  System.out.println("is not between");

}

    }

}

**1.1c between a & c:**

import java.util.\*;

public class Main{

  public static void main(String[] args) {

  int a,b,c;

    Scanner sc= new Scanner(System.in);

    System.out.println("Enter 3 number");

    a=sc.nextInt();

    b=sc.nextInt();

    c=sc.nextInt();

    if(c>a && a<b || c<a && c>b){

      System.out.println("is between");

    }

else{

  System.out.println("is not between");

}

    }

}

**12. voting :**

import java.util.\*;

public class Main{

  public static void main(String[] args) {

  int n;

    Scanner sc= new Scanner(System.in);

    System.out.println("Enter n number");

    n=sc.nextInt();

if(n>=18){

      System.out.println("is illigilbe for voting");

    }

else{

  System.out.println("is not not illigble for voting");

}    }

}

**13. Accept ATM pin from user & check wheather it is valid or not:**import java.util.\*;

public class Atm {

    public static void main(String[] args) {

        int pin;

        System.out.println("Enater ATM pin");

        Scanner sc=new Scanner(System.in);

        pin=sc.nextInt();

        if( pin==15089){

System.out.println(pin +"is valid");

        }

        else{

            System.out.println(pin +"is not valid");

        }

     }

}

**14.Accept balance amount & withdrawal amount from user if withdrawal amount than amount print a message insufficient balance otherwise display remaining balance:**

import java.util.\*;

public class Main4 {

    public static void main(String[]args){

    double balance,withdrawal;

    System.out.println("Enter Amount");

Scanner sc=new Scanner(System.in);

balance=sc.nextDouble();

withdrawal=sc.nextDouble();

if(withdrawal>balance){

    System.out.println("Insufficient balance");

}

else{

    System.out.println("current="+(balance-withdrawal));

}

}

    }

**15. Accept number of vaccine & print its eligibility for interview or not:**

import java.util.\*;

public class Vaccine {

    public static void main(String[]agrs){

    int V;

    Scanner sc=new Scanner(System.in);

    System.out.println("Enter number of vaccine taken");

    V=sc.nextInt();

    if(V>=2){

        System.out.println(V +" is Eligible for interview ");

    }

else{

    System.out.println(V +" is not Eligible for interview ");

}

}

}

**16. Accept Selling price & cost prise from user & display profit or loss or non:**

import java.util.\*;

public class Main4 {

    public static void main(String[]args){

    double cp,sp,total,per;

    System.out.println("Enter Amount");

Scanner sc=new Scanner(System.in);

cp=sc.nextDouble();

sp=sc.nextDouble();

if(cp>sp)

{ total=sp-cp;

    per=(total/cp)\*100;

    System.out.println("Profit="+total+"per="+per);

}

else if(sp<cp)

{ total=sp-cp;

    per=(total/cp)\*100;

    System.out.println("losss="+total+"per");

}

else{

    System.out.println("none");

}

}

 }

**17. Check whether no is 1 digit or 2 digit or:**

import java.util.\*;

public class Digit {

    public static void main(String[]args){

        int n;

        Scanner sc=new Scanner(System.in);

        System.out.println("Eneter Digit");

        n=sc.nextInt();

        if(n>=0&&n<=9){

            System.out.println(n+ "one digit");

        }

        else if(n>=10&&n<=99){

            System.out.println(n+ "two digit");

            }

            else if(n>100&&n<=999){

                System.out.println(n + "three digit");

            }

            else if(n>=1000&&n<=9999){

                System.out.println(n + "four digit");

            }

            else if(n>=100000&&n<=99999){

                System.out.println(n + "five digit");

            }

            else{

                System.out.println(n + "more than six digit");

            }

        }

    }

**18.Write a program to read three sides a,b,c of a triangle & print the type if the triangle:**

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int a,b,c;

Scanner sc=new Scanner(System.in);

System.out.println("Enter a,b,c");

a=sc.nextInt();

b=sc=nextInt();

c=sc=netxInt();

if((a\*a)+(b\*b)==(c\*c)||(b\*b)+(c\*c)==(a\*a)|| (c\*c)+(a\*a)==(b\*b)){

System.out.println("Right angled triangle");

}

else{

System.out.println("Not Right angled triangle");

}

if(a==b) && (b==c);{

System.out.println("Equilateral triangle");

}

else{

System.out.println("Not Equilateral triangle");

}

if(a==b) || (b==c) || (c==a);

{

System.out.println("Isosceles triangle");

}

else{

System.out.println("Not Isosceles triangle");

}

if(a!=b&&b1=c && c!=a);

{

System.out.println("Scalene");

}

else{

System.out.println("Not Scalene");

}

}

}

**19.Accept x & y point from users and print its qunadrant:**

import java.util.Scanner;

public class Point {

    public static void main(String[]args){

    Scanner sc=new Scanner(System.in);

    System.out.println("Enter x");

    int x=sc.nextInt();

    System.out.println("Enter y");

    int y=sc.nextInt();

    if(x>0&&y>0)   {

        System.out.println("Quad-1");

    }

else if(x<0&&y<0){

    System.out.println("Quad-2");

}

    else if(x<0&&y<0)    {

        System.out.println("Quad-3");

    }

    else if(x>0&&y<0)

    {

        System.out.println("Quad-4");

    }

    }

**20. Maximum from 3 NO’S**

import java.util.\*;

public class Main3 {

    public static void main(String[]args)

     {

int a,b,c;

System.out.println("Enter numbers");

Scanner sc=new Scanner(System.in);

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

if(a>b&&a>c)

{

    System.out.println(a+"is max");

    }

else if(a<b&&c<b)

{

    System.out.println(b+"is max");

    }

    else if(a<c&&b<c)

    {

        System.out.println(c+"is max");

        }

        else if(a==b&&a<c){

            System.out.println(a+"and"+b+"is equal also max");

        }

        else if(a==c&&a>c)

        {

            System.out.println(a+"and"+c+"is equal also max");

        }

         else if(b==c&&b>a){

            System.out.println(b+"and"+c+"is equal also max");

         }

         else{

            System.out.println("All are equal");

         }

        }

     }

**21. Minimum from 3 no:**

import java.util.\*;

public class Main3 {

    public static void main(String[]args)

     {

int a,b,c;

System.out.println("Enter numbers");

Scanner sc=new Scanner(System.in);

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

if(a<b&&a<c)

{

    System.out.println(a+"is min");

    }

else if(b<a&&b<c)

{

    System.out.println(b+"is min");

    }

    else if(c<a&&c<b)  {

        System.out.println(c+"is min");

        }

        else if(a==b&&a<c){

            System.out.println(a+"and"+b+"is equal also min");

        }

        else if(a==c&&a<b) {

            System.out.println(a+"and"+c+"is equal also min");

        }

         else if(b==c&&b<a){

            System.out.println(b+"and"+c+"is equal also min");

         }

         else{

            System.out.println("All are equal");

         }

        }

     }

**22. maximum from 4 no:**

import java.util.\*;

public class Main3 {

    public static void main(String[]args) {

        int a,b,c,d;

  System.out.println("Enter values");

  Scanner sc=new Scanner(System.in);

  a=sc.nextInt();

  b=sc.nextInt();

  c=sc.nextInt();

  d=sc.nextInt();

  if(a>b&&a>c&&a>d) {

   System.out.println(a+"is max");

  }

else if(b>a&&b>c&&b>d)  {

System.out.println(b+"is max");

  }

else if(c>a&&c>b&&c>d)  {

   System.out.println(c+"is max");

  }

else if(d>a&&d>b&&b>c)  {

   System.out.println(d+"is max");

  }

else if(a==b&&a>c&&a>d) {

   System.out.println(a+"and"+b+"is equal also max");

  }

else if(b==c&&b>a&&b>d){

   System.out.println(b+"and"+c+"is equal also max");

  }

else if(c==d&&c>a&&c>b)  {

   System.out.println(c+"and"+d+"is equal also max");

  }

else if(a==d&&a>b&&a>){

   System.out.println(a+"and"+d+"is equal also max");

  }

else if(a==b&&b==c&&a>d){

   System.out.println(a+"and"+b+"and"+c+"is equal also max");

  }

else if(b==c&&c==d&&c>a)  {

   System.out.println(d+"and"+b+"and"+c+"is equal also max");

  }

else if(a==b&&b==d&&b>c)  {

   System.out.println(a+"and"+b+"and"+d+"is equal also max");

  }

else if(a==c&&c==d&&a>b){

   System.out.println(a+"and"+d+"and"+c+"is equal also max");

  }

else{

 System.out.println("All are equal");

  }

  }

}

**23.Accept bs from user & display its tax:**

import java.util.Scanner;

public class Tax {

    public static void main(String[]args){

    Scanner sc=new Scanner(System.in);

double basicSalary;

System.out.println("Enter your basic salary");

basicSalary=sc.nextDouble();

if(basicSalary<150000){

    System.out.println("No tax");

}

else if(basicSalary>=150000 && basicSalary<300000){

    double tax=basicSalary\*0.05;

    System.out.println("Your tax is: " +tax + " Rs");

}

else{

    Double tax = basicSalary\*0.07;

    System.out.println("Your tax is: " +tax +"Rs");

}

    }

}

**24. Calculate their percentage and class:**

import java.util.Scanner;

public class Mark {

    public static void main(String[] args) {

        int m1,m2,m3,total,per;

        Scanner sc=new Scanner(System.in);

        System.out.println("Enter Marks");

        m1 =sc.nextInt();

        m2=sc.nextInt();

        m3=sc.nextInt();

        total=m1+m2+m3;

        per=total/3;

        System.out.println("Total="+total+"\nPer="+per);

        if(per>=70&&per<=100){

            System.out.println("Dist");

        }

        else if(per>=55&& per<=60){

            System.out.println("First class");

        }

        else if(per>=50 && per<=55 ){

            System.out.println("Higher second");

        }

        else if(per>=40 && per<=50){

            System.out.println("Second");

        }

        else{

            System.err.println("Fail");

        }

        }

    }

**25:Display character is vowel or not:**

import java.util.Scanner;

public class Vowel{

public static void main(String[] args)  {

char ch;

Scanner sc=new Scanner (System.in);

System.out.println("Enter character");

ch=sc.next().charAt(0);

if(ch=='a'|| ch=='A' ||ch=='e' ||ch=='E' ||ch=='i'){

System.out.println(ch + " is vowel");

}

else {

System.out.println(ch + " is not vowel");

}

}

}

**26. Display character is alphabate or not:**

import java.util.Scanner;

public class Char {

    public static void main(String[]args){

        char ch;

        Scanner sc=new Scanner(System.in);

        System.out.println("Enter Character");

        ch=sc.next().charAt(0);

        if((ch>='a' && ch<='z') ||(ch>='A'&& ch<='z')){

            System.out.println( ch +" is alphabate");}

            else{

                System.out.println( ch +" is not alphabate");

            }

        }

    }

**Nested if else**

**1.Divisible by 5 and 7:**

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int n;

Scanner sc=new Scanner(System.in);

System.out.println("Enter Number");

n=sc.nextInt();

if (n % 5 == 0) {

if (n % 7 == 0) {

System.out.println(n + " is divisible by both 5 and 7.");

} else {

System.out.println(n + " is divisible by 5 but not by 7.");

}

} else {

if (n% 7 == 0) {

System.out.println(n + " is divisible by 7 but not by 5.");

} else {

System.out.println(n + " is not divisible by both 5 and 7.");

}

}

}

}

**2.Max 3 no’s**

import java.util.\*;

public class Main

{

public static void main (String[]args)

{

int a, b, c;

Scanner sc = new Scanner (System.in);

System.out.println ("Enter Number");

a = sc.nextInt ();

b = sc.nextInt ();

c = sc.nextInt ();

if (a >= b)

if (a >= c) {

System.out.println("Max: " + a);

} else {

System.out.println("Max: " + c);

}

else

if (b >= c) {

System.out.println("Max: " + b);

}

else {

System.out.println("Max: " + c);

}

}

}

**3.Min 3 no’s:**

import java.util.\*;

public class Main

{

public static void main (String[]args)

{

int a, b, c;

Scanner sc = new Scanner (System.in);

System.out.println ("Enter Number");

a = sc.nextInt ();

b = sc.nextInt ();

c = sc.nextInt ();

if (a <= b)

if (a <= c) {

System.out.println("Min: " + a);

} else {

System.out.println("Min: " + c);

}

else

if (b <= c) {

System.out.println("Min: " + b);

}

else {

System.out.println("Min: " + c);

}

}

}

**4.Blood Donation:**

import java.util.\*;

public class Main

{

public static void main (String[]args)

{

int wt,age,hb;

Scanner sc = new Scanner (System.in);

System.out.println ("Enter wt,age,hb");

wt = sc.nextInt ();

age = sc.nextInt ();

hb = sc.nextInt ();

if (wt >= 55) {

System.out.println("Eligible for boold donation");

} else {

System.out.println(" Not Eligible for boold donation");

}

if (age>= 18) {

System.out.println("Eligible for boold donation");

}

else {

System.out.println("Not Eligible for boold donation");

}

if(hb>=12)

{

System.out.println("Eligible for boold donation");

}

else{

System.out.println(" Not Eligible for boold donation");

}

}

}

**5.Eligible for aptitude exam:**

import java.util.\*;

public class Main

{

public static void main (String[]args)

{

int tenth,twelth,gd ;

Scanner sc = new Scanner (System.in);

System.out.println ("Enter Marks");

tenth = sc.nextInt ();

twelth = sc.nextInt ();

gd= sc.nextInt ();

if (tenth>= 60)

if(twelth>=60)

if(gd>=70)

{

System.out.println("Congratulations You Eligible for aptitud exam! You have passed all three exams with flying colors!");

} else {

System.out.println("You have passed 10th and 12th, but failed in graduation but you not Eligible for aptitud exam.");

}

else {

System.out.println("You have passed 10th, but failed in 12th but you not Eligible in aptitud exam..");

}

else {

System.out.println("You have failed in 10th but you not Eiligible for aptitud exam..");

}

}

}

**Conditional operator:**

**1 max 3 numbers:**

import java.util.\*;

public class Main

{

public static void main (String[]args)

{

int a,b,c;

Scanner sc = new Scanner (System.in);

System.out.println ("Enter numbers");

a = sc.nextInt ();

b = sc.nextInt ();

c= sc.nextInt ();

c = (a >= b) ? (a >= c ? a : c) : (b >= c ? b : c);

{

System.out.println("c is max");

}

}

}